

## Product datasheet for TP302062

### PEX5 (NM\_000319) Human Recombinant Protein

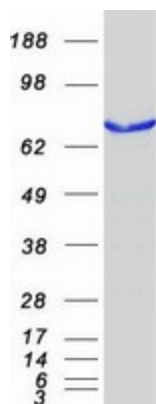
#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human peroxisomal biogenesis factor 5 (PEX5), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC202062 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MAMRELVEAECGGANPLMKLAGHFTQDKALRQEGLRPGWPPGAPASEAASKPLGVASEDELVAEFLQD Q NAPLVSRAPQTFKMDDLLAEMQQIEQSNFRQAPQRAPGVADLALSENWAQEFLLAAGDAVDVTQDYN DW SQEFISEVTDPLSVSPARWAEYLEQSEEKLWLGEPEGTATDRWYDEYHPEEDLQHTASDFVAKVDDPKL ANSEFLKFVRQIGEGQVSLESGAGSGRAQAEQWAAEFIQQGTSDAWVDQFTRPVNTSALDMEFERAKS A IELQAELEEMAKRDAAHPWLSYDDLTSAITYDKGYQFEEENPLRDHPQPFEGLRRLQEGDLPNAVLLF EAAVQQDPKHMEAWQYLGTTQAENEQELLAISALRRCLKPDNQTALMALAVSFTNESLQRQACETLR D WLRYTPAYAHLVTPAEEGAGGAGLGPSKRILGSLSDSLFLEVKEFLAAVRLDPTSIDPDVQCGLGVLF NLSGEYDKAVDCFTAALSVRPNLYLLWNKLGATLANGNQSEEAVAAYRRALQLPGYIRSRYNL LGISCIN LGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWSTLRLLSMLGQSDAYGAADARDLSTLLTMFGL P Q  <span style="color: red;">SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV</span>
Tag:	C-Myc/DDK
Predicted MW:	69.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol


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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_000310</a></u>
<b>Locus ID:</b>	5830
<b>UniProt ID:</b>	<u><a href="#">P50542</a></u>
<b>RefSeq Size:</b>	3190
<b>Cytogenetics:</b>	12p13.31
<b>RefSeq ORF:</b>	1893
<b>Synonyms:</b>	PBD2A; PBD2B; PTS1-BP; PTS1R; PXR1; RCDP5
<b>Summary:</b>	The product of this gene binds to the C-terminal PTS1-type tripeptide peroxisomal targeting signal (SKL-type) and plays an essential role in peroxisomal protein import. Peroxis (PEXs) are proteins that are essential for the assembly of functional peroxisomes. The peroxisome biogenesis disorders (PBDs) are a group of genetically heterogeneous autosomal recessive, lethal diseases characterized by multiple defects in peroxisome function. The peroxisomal biogenesis disorders are a heterogeneous group with at least 14 complementation groups and with more than 1 phenotype being observed in cases falling into particular complementation groups. Although the clinical features of PBD patients vary, cells from all PBD patients exhibit a defect in the import of one or more classes of peroxisomal matrix proteins into the organelle. Defects in this gene are a cause of neonatal adrenoleukodystrophy (NALD), a cause of Zellweger syndrome (ZWS) as well as may be a cause of infantile Refsum disease (IRD). Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2008]
<b>Protein Families:</b>	Druggable Genome

## Product images:



Coomassie blue staining of purified PEX5 protein (Cat# TP302062). The protein was produced from HEK293T cells transfected with PEX5 cDNA clone (Cat# [RC202062]) using MegaTran 2.0 (Cat# [TT210002]).